Index of Claims



Application/Control No.

09/879,594

Examiner

CREEK, ROY EDWARD

Applicant(s)/Patent under Reexamination

Art Unit

William D. Thomson

2123

| <b>~</b> | Rejected |
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| =        | Allowed  |

(Through numeral) Cancelled

Restricted

Non-Elected N Interference

**Appeal** 0 Objected

| Claim Date             |          |          | Claim Date                              |   |              |                 |          |                | Cla      | Date     |                 |                      |                     |          |          |              |                 |          |  |   |          |            |          |          |          |          |          |          |          |          |          |
|------------------------|----------|----------|---|---|--------------|-----------------|----------|----------------|----------|----------|-----------------|----------------------|---------------------|----------|----------|--------------|-----------------|----------|--|---|----------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                        | al       | ō.       |   |   |              |                 |          |                |          |          |                 | ョ                    |                     | Т        |          |              | П               |          |  |   |          |            |          |          |          |          |          |          |          |          | П        |
| Final                  | Original | 5/12/05  |   |   |              |                 |          |                |          |          | Final           | Original             |                     |          |          |              |                 |          |  |   | Final    | Original   |          |          |          |          |          |          |          |          |          |
| "                      | ŏ        | ά        |   |   |              |                 |          |                |          |          | <u> </u>        | õ                    |                     |          |          |              |                 |          |  |   | ш        | Ö          |          |          |          |          |          |          | ı        | j        |          |
| $\vdash$               | 1        | -        | -                                       | - |              | $\vdash$        | ┝        | ╁              |          | ┝        |                 | 51                   | $\vdash$            | -        | +        | ╁┈           |                 | +        | +  |   |          | 101        |          | $\dashv$ | $\dashv$ | $\dashv$ | _        |          | $\dashv$ |          | $\dashv$ |
| _                      | 2        | -        |   | - | $\vdash$     | $\vdash$        | $\vdash$ | $\vdash$       | $\vdash$ | ┢        |                 | 52                   | $\vdash$            | +        | +        | ╁            | $\vdash$        | $\dashv$ | +  |   |          | 102        |          | $\dashv$ | -        | $\dashv$ | -        | -        | ┥        | -        | $\dashv$ |
|                        | 3        | -        | -                                       | _ | ┢            | -               | -        | H              | <u> </u> | ╁        |                 | 53                   | $\vdash$            | +        | +        | ╁            | $\vdash$        | +        | +  |   |          | 103        |          | $\dashv$ | $\dashv$ | $\dashv$ | _        |          | $\dashv$ |          | $\dashv$ |
| 1                      | 4        | =        |   |   | T            | $\vdash$        | _        | Т              |          | 1        |                 | 54                   | $\vdash$            | 十        | +        | T            | $\vdash$        | $\dashv$ | $\top$   |   |          | 104        | $\vdash$ |          | $\dashv$ | $\dashv$ | $\neg$   |          | 一        | -        | 一        |
| 2                      | 5        | =        |   |   |              |                 |          |                |          | _        |                 | 55                   | $\Box$              | +        | $\top$   | T            | $\Box$          |          | $\top$   |   |          | 105        |          |          | $\neg$   |          |          |          | $\neg$   |          | $\neg$   |
|                        | 6        |          |   |   |              |                 |          |                |          |          |                 | 56                   | П                   | 丁        |          | 1            | П               |          | $\top$   |   |          | 106        |          |          |          |          |          |          |          |          | ヿ        |
|                        | 7        |          |   |   |              |                 |          |                |          |          |                 | 57                   |                     |          |          |              |                 |          |  |   |          | 107        |          |          |          |          |          |          |          |          |          |
|                        | 8        | _        |   |   |              |                 |          |                |          |          |                 | 58                   |                     | $\perp$  | $\perp$  | $oxed{\Box}$ |                 |          |  |   |          | 108        |          |          |          |          |          |          |          |          | $\Box$   |
|                        | 9        | <u> </u> | L                                       | _ | L            |                 |          | <u> </u>       | <u> </u> | <u> </u> |                 | 59                   |                     | $\perp$  | $\perp$  | <u> </u>     | Ш               |          | $\perp$  |   |          | 109        |          |          |          |          |          |          |          |          |          |
|                        | 10       | <u> </u> |   |   | <u> </u>     |                 | _        | L_             | <u> </u> | <u> </u> |                 | 60                   |                     | $\bot$   | $\bot$   |              | Щ               |          | $\perp$  |   |          | 110        |          | _        |          | _        |          | Ш        | _        |          | ᆜ        |
|                        | 11       | ├        | $\vdash$                                | _ | <u> </u>     | Н               | 匚        |                | -        | ├-       |                 | 61                   | $\vdash$            | -        | +        | $\perp$      | $\sqcup$        | _        | +  |   |          | 111        | <u> </u> |          | _        | _        | _        | Ш        | $\dashv$ | _        | $\dashv$ |
| <b> </b>               | 12<br>13 | ⊢        | -                                       | _ | <u> </u>     | Н               | $\vdash$ | <u> </u>       | ├—       | $\vdash$ | <u> </u>        | 62                   | $\vdash \vdash$     | $\dashv$ |          | +            | $\vdash \vdash$ | -        | +  |   | <b>_</b> | 112        |          |          |          | _        | _        | $\vdash$ | $\dashv$ | 4        | _        |
|                        | 14       | $\vdash$ | $\vdash$                                | — | -            | Н               | $\vdash$ |                | -        | ⊢        | $\vdash$        | 63<br>64             | $\vdash$            | +        | +        | +            | $\vdash \vdash$ |          | +  |   | <u> </u> | 113        | H        |          | -        |          | _        | Н        | $\dashv$ | -        | _        |
|                        | 15       | ┢        | $\vdash$                                |   | H            | Н               | ⊢        | -              |          | -        |                 | 65                   | <del>  -</del>      | +        | +        | +            | $\vdash \vdash$ | +        | +  |   | $\vdash$ | 114<br>115 | Н        | $\dashv$ | -        |          | -        | $\vdash$ | $\dashv$ | 4        | $\dashv$ |
| $\vdash$               | 16       | ┢        |   | _ | $\vdash$     | Н               | -        |                | -        | _        |                 | 66                   | $\vdash$            | +        | +        | +            | $\vdash$        | $\dashv$ | +  |   |          | 116        | Н        | $\dashv$ | $\dashv$ | $\dashv$ | -        |          | $\dashv$ | -        | 一        |
| <u> </u>               | 17       | $\vdash$ | $\vdash$                                | _ | <del> </del> | $\vdash$        | ┢        |                | $\vdash$ | H        |                 | 67                   | $\vdash$            | ╁        | +        | +            | $\vdash \vdash$ | +        | +  |   |          | 117        | H        | $\dashv$ | $\dashv$ |          | -        | Н        | -+       | $\dashv$ | $\dashv$ |
|                        | 18       | H        |   |   | $\vdash$     |                 | $\vdash$ |                | $\vdash$ | -        |                 | 68                   | -                   | +        | +        | +-           | H               | _        | +  |   |          | 118        |          | -        | -        | $\dashv$ | =        |          | $\dashv$ | -        | $\dashv$ |
|                        | 19       |          |   |   | $\vdash$     |                 | $\vdash$ |                |          |          |                 | 69                   |                     | 十        | _        | T            | Ħ               |          | $\top$   |   |          | 119        |          | $\dashv$ | $\dashv$ |          | -        |          | $\dashv$ |          | $\dashv$ |
|                        | 20       |          |   |   |              | П               | T        |                |          |          |                 | 70                   | H                   | 十        | 十        | T            | Ħ               | $\top$   | $\top$   |   |          | 120        |          |          | $\dashv$ | _        |          |          | 寸        |          | $\dashv$ |
|                        | 21       |          |   |   |              |                 |          |                | Г        |          |                 | 71                   |                     | $\top$   | ┪        |              | П               |          |  |   |          | 121        |          |          | ヿ        | $\neg$   |          |          | T        | 1        | $\neg$   |
|                        | 22       |          |   |   |              |                 |          |                |          |          |                 | 72                   |                     |          |          |              |                 |          |  |   |          | 122        |          |          | $\neg$   |          |          |          |          |          |          |
|                        | 23       |          |   |   |              |                 |          |                |          |          |                 | 73                   |                     | $\perp$  |          |              |                 |          |  |   |          | 123        |          |          |          |          |          |          |          | Ī        |          |
|                        | 24       |          | Ш                                       |   |              | Щ               |          |                |          |          |                 | 74                   | Ш                   |          |          |              |                 |          |  |   |          | 124        |          |          |          |          |          |          |          |          |          |
|                        | 25       | _        |   |   |              | Щ               |          | $\perp$        |          | L_       |                 | 75                   | Ш                   |          | $\perp$  | ┺            |                 | <u> </u> | $\perp$  |   |          | 125        | Ш        |          | _        | _        |          |          |          |          |          |
|                        | 26       | <u> </u> |   |   |              | -               | _        | _              |          |          |                 | 76                   | $\vdash \vdash$     | _        | _        | $\bot$       |                 |          | 1  |   |          | 126        |          | $\perp$  | _        | _        | _        | $\Box$   |          |          |          |
| $\vdash$               | 27       | <u> </u> |   |   | -            | Н               |          | L              | L        | _        |                 | 77                   | $\vdash$            |          | -        | -            |                 |          | ┦┦   |   |          | 127        |          | $\dashv$ | _        | _        | _        |          | _        | _        |          |
| $\vdash$               | 28<br>29 | -        |   | _ | $\vdash$     | Н               | $\vdash$ | -              |          |          |                 | 78<br>79             | $\vdash$            | +        | +        | +-           | $\dashv$        | +        | +  |   |          | 128        | Ш        | -        |          |          | _        | _        |          |          | _        |
| $\vdash$               | 30       | -        | $\vdash$                                | _ | -            | Н               | -        | ⊢              | -        |          | -               | 80                   | $\vdash$            | +        | +        | -            | $\dashv$        |          | +  |   |          | 129<br>130 | Н        |          | -        |          |          |          | -        |          | -        |
|                        | 31       | H        |   |   |              | -               | _        | -              | $\vdash$ | -        | $\vdash$        | 81                   | $\vdash$            | +        | $\dashv$ | +            | $\dashv$        | -        | +  |   |          | 131        | -        |          | $\dashv$ | $\dashv$ | _        |          | $\dashv$ | -        | _        |
| $\vdash \dashv$        | 32       | $\vdash$ | -                                       | _ | $\vdash$     | H               | $\vdash$ | <del>  -</del> | $\vdash$ | $\vdash$ | $\vdash$        | 82                   | $\vdash \vdash$     | +        | +        | +-           | $\vdash$        | +        | +  |   |          | 132        | $\vdash$ |          |          | $\dashv$ | -        |          | $\dashv$ | $\dashv$ | $\dashv$ |
| $\vdash \vdash \vdash$ | 33       | $\vdash$ | Н                                       |   | Н            | Н               | Н        |                | $\vdash$ | $\vdash$ |                 | 83                   | $\vdash$            | +        | +        | +            | $\vdash$        | +-       | +  |   |          | 133        | $\vdash$ | $\dashv$ |          | ᅱ        |          | -        | $\dashv$ | $\dashv$ | $\dashv$ |
|                        | 34       | Г        |   | _ | П            | H               |          |                | $\vdash$ |          |                 | 84                   | $\vdash$            | $\dashv$ | $\top$   | $\top$       | $\vdash$        | +        | +  |   |          | 134        | $\vdash$ | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ |
|                        | 35       | Г        | П                                       | _ | П            | П               | Г        |                |          | Г        |                 | 85                   | $\vdash$            | +        | $\top$   | T            | $\sqcap$        | +        | $\top$   |   |          | 135        |          |          | ᅥ        | $\dashv$ | -        | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ |
|                        | 36       |          |   |   |              |                 |          |                |          |          |                 | 86                   | $\sqcap$            | $\top$   | T        | 1            | $\sqcap$        | $\top$   | $\top$   |   |          | 136        |          |          | $\dashv$ | $\dashv$ |          | $\vdash$ | 7        | $\dashv$ | ᅥ        |
|                        | 37       |          |   |   |              |                 |          |                |          |          |                 | 87                   |                     |          |          |              |                 |          |  |   |          | 137        |          |          | 一        | 一        |          |          | $\dashv$ | $\neg$   | ヿ        |
|                        | 38       |          |   |   |              |                 |          |                |          |          |                 | 88                   |                     | $\perp$  | I        |              |                 |          |  |   |          | 138        |          |          |          |          |          |          |          |          | $\Box$   |
| igsqcut                | 39       | L_       | Ш                                       |   | <u> </u>     | Ш               | $\Box$   | $oxed{oxed}$   | $\Box$   |          |                 | 89                   | $\Box$              | $\perp$  | $\perp$  |              | $\Box$          |          | П  |   |          | 139        |          |          | $\Box$   |          |          |          |          |          |          |
|                        | 40       | L_       | Щ                                       |   | L.           | Ш               | <u> </u> | $\sqcup$       | Ш        |          | L               | 90                   | $\sqcup$            |          | $\perp$  |              | $\Box$          |          | $\perp$  |   |          | 140        |          | $\Box$   | _[       |          |          |          |          |          | $\Box$   |
| $\vdash \vdash$        | 41       |          | Щ                                       | _ | <u> </u>     | Ш               |          | $\vdash$       |          | <u> </u> | $\Box$          | 91                   | $\sqcup$            | $\perp$  | $\perp$  | _            | $\sqcup$        |          | $\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ |   |          | 141        |          | $\sqcup$ | _        |          |          |          | $\perp$  | _        | $\dashv$ |
| $\vdash \vdash \vdash$ | 42       | Щ        | Н                                       |   | $\vdash$     | $\vdash \vdash$ | $\vdash$ | $\vdash$       | $\vdash$ | <u> </u> | $\square$       | 92                   | $\vdash \downarrow$ | $\perp$  | $\perp$  | <b> </b> _   | $\sqcup$        |          | $\perp$  |   |          | 142        |          | $\sqcup$ | _        |          | _        |          |          |          |          |
|                        | 43       | H        | Н                                       |   | <u> </u>     | $\vdash \vdash$ |          | $\vdash$       | $\vdash$ | <u> </u> |                 | 93                   | $\vdash \vdash$     | +        | +        | $\vdash$     | $\dashv$        | -        | +  |   |          | 143        | $\Box$   | $\dashv$ | _        | _        | _        | ·        | 4        | _        | _        |
| $\vdash$               | 44<br>45 | H        | $\vdash$                                | _ | H            | $\vdash$        | $\vdash$ | Н              | -        | <u> </u> | $\vdash \vdash$ | 9 <del>4</del><br>95 |                     | +        | +        | -            | $\vdash \vdash$ | +        | +  |   |          | 144        | Ш        | $\dashv$ | $\dashv$ |          | $\dashv$ | $\sqcup$ | -        | $\dashv$ | $\dashv$ |
| $\vdash$               | 46       | H        |   | _ |              |                 | -        | $\vdash\dashv$ | $\vdash$ | -        |                 | 96                   | $\vdash \vdash$     | +        | +        | +-           | $\dashv$        |          | +  |   |          | 145        | -        | $\dashv$ | -        | -        | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$ |
| $\vdash$               | 47       |          | $\dashv$                                |   | Н            | Н               | Н        | $\vdash$       | $\vdash$ | $\vdash$ | $\vdash$        | 97                   | $\vdash \vdash$     | +        | +        | +-           | $\dashv$        | +        | +  |   |          | 146<br>147 | $\vdash$ | -        | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ | +        | $\dashv$ |
|                        | 48       | H        | $\dashv$                                | - | -            | $\vdash$        | Н        | $\vdash$       | Н        |          |                 | 98                   | ++                  | +        | -        | $\vdash$     | $\dashv$        | $\dashv$ | +  |   |          | 148        | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | -        |          | $\dashv$ | $\dashv$ | $\dashv$ |
|                        | 49       | Н        |   | - | $\vdash$     | H               | Н        | H              | H        |          |                 | 99                   | -+                  | +        | +        | -            | $\dashv$        | +        | +  |   |          | 149        | $\vdash$ | $\dashv$ | $\dashv$ |          | $\dashv$ |          | $\dashv$ | -        | ᅱ        |
|                        | 50       | Н        |   |   | Н            | Н               | -        | Н              | Н        |          |                 | 100                  | $\vdash$            | +        | +        | $\vdash$     | -               | +        | +  |   |          | 150        | $\dashv$ | -+       | $\dashv$ | $\dashv$ | $\dashv$ | $\vdash$ | $\dashv$ | $\dashv$ | ᅱ        |
|                        |          | ىب       | ىــــــــــــــــــــــــــــــــــــــ |   | $\vdash$     |                 | Ц.       |                | ш        | _        | <br>            |                      |                     | L_       |          |              |                 |          | لــــــــــــــــــــــــــــــــــــــ                          | : |          | 100        |          | 1        | {        |          |          |          |          |          |          |